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## Anti-ROBO1 antibody

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<b>Description</b>	Unconjugated Rabbit polyclonal to ROBO1
<b>Model</b>	STJ191349
<b>Host</b>	Rabbit
<b>Reactivity</b>	Human, Mouse, Rat
<b>Applications</b>	ELISA, WB
<b>Immunogen</b>	Synthesized peptide derived from human ROBO1 protein.
<b>Immunogen Region</b>	730-810aa
<b>Gene ID</b>	<a href="#">6091</a>
<b>Gene Symbol</b>	<a href="#">ROBO1</a>
<b>Dilution range</b>	WB 1:500-2000ELISA 1:5000-20000
<b>Specificity</b>	ROBO1 polyclonal antibody detects endogenous levels of protein.
<b>Tissue Specificity</b>	Widely expressed, with exception of kidney.
<b>Purification</b>	ROBO1 antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Note</b>	FOR RESEARCH USE ONLY (RUO).
<b>Protein Name</b>	Roundabout homolog 1 Deleted in U twenty twenty H-Robo-1
<b>Molecular Weight</b>	181 kDa
<b>Clonality</b>	Polyclonal
<b>Conjugation</b>	Unconjugated
<b>Isotype</b>	IgG

<b>Formulation</b>	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
<b>Concentration</b>	1 mg/ml
<b>Storage Instruction</b>	Store at -20°C, and avoid repeat freeze-thaw cycles.
<b>Database Links</b>	<a href="https://www.ncbi.nlm.nih.gov/condensedcode/HGNC:10249OMIM:602430">HGNC:10249OMIM:602430</a>
<b>Alternative Names</b>	Roundabout homolog 1 Deleted in U twenty twenty H-Robo-1
<b>Function</b>	Receptor for SLIT1 and SLIT2 that mediates cellular responses to molecular guidance cues in cellular migration, including axonal navigation at the ventral midline of the neural tube and projection of axons to different regions during neuronal development. Interaction with the intracellular domain of FLRT3 mediates axon attraction towards cells expressing NTN1. In axon growth cones, the silencing of the attractive effect of NTN1 by SLIT2 may require the formation of a ROBO1-DCC complex. Plays a role in the regulation of cell migration via its interaction with MYO9B; inhibits MYO9B-mediated stimulation of RHOA GTPase activity, and thereby leads to increased levels of active, GTP-bound RHOA. May be required for lung development.
<b>Cellular Localization</b>	Cell membrane Cell projection, axon. Detected at growth cones in thalamus neurons.
<b>Post-translational Modifications</b>	Ubiquitinated. May be deubiquitinated by USP33.

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**St John's Laboratory Ltd**

**F** +44 (0)207 681 2580

**T** +44 (0)208 223 3081

**W** <http://www.stjohnslabs.com/>

**E** [info@stjohnslabs.com](mailto:info@stjohnslabs.com)